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**1**  **Recognition section: Resolution enhancement of facial image based on top-down learning**   ◼
Jeong-Seon Park, Seong-Whan Lee
November 2003 **First ACM SIGMM international workshop on Video surveillance**
Full text available: ▣ pdf(1.49 MB)      Additional Information: full citation, abstract, references, index terms

This paper proposes a new method of synthesizing a highresolution facial image from a low-resolution facial image based on top-down learning. A face is represented by a linear combination of prototypes of shape and texture. With the shape and texture information about the pixels in a given low-resolution facial image, we can estimate optimal coefficients for a linear combination of prototypes of shape and those of texture by solving least square minimization. Then high-resolution facial image ca ...

**Keywords**: face recognition, face reconstruction, image enhancement, image reconstruction, low-resolution, morphable face model, pattern recognition

**2**  **Display Devices: Stereoscopic video system with embedded high spatial resolution images using two channels for transmission**   ◼
Takafumi Ienaga, Katsuya Matsunaga, Kazunori Shidoji, Kazuaki Goshi, Yuji Matsuki, Hiroki Nagata
November 2001 **Proceedings of the ACM symposium on Virtual reality software and technology**
Full text available: ▣ pdf(490.98 KB)     Additional Information: full citation, abstract, references, index terms

Teleoperation requires both wide vision to recognize a whole workspace and fine vision to recognize the precise structure of objects which an operator wants to see. In order to achieve high operational efficiency in teleoperation, we have developed the Q stereoscopic video system which is constructed of four sets of video cameras and monitors. It requires four video channels to transmit video signals. However, four channels are not always available for a video system because of the limitation of ...

**Keywords**: Q stereoscopic video system, compound image, operational efficiency, teleoperation, temporal resolution

**3**  **Camera management: Distilling information with super-resolution for video surveillance**   ◼
Marco Cristani, Dong Seon Cheng, Vittorio Murino, Donato Pannullo

October 2004 **Proceedings of the ACM 2nd international workshop on Video surveillance & sensor networks**

Full text available: 📄 pdf(463.35 KB)   Additional Information: full citation, abstract, references, index terms

A video surveillance sequence generally contains a lot of scattered information regarding several objects in cluttered scenes. Especially in case of use of digital hand-held cameras, the overall quality is very low due to the unstable motion and the low resolution, even if multiple shots of the desired target are available.

To overcome these limitations, we propose a novel Bayesian framework based on image superresolution, that integrates all the informative bits of a target and conden ...

**Keywords**: generative model, machine learning, super-resolution, video surveillance

4  User performance with gaze contingent multiresolutional displays ▬

Lester C. Loschky, George W. McConkie

November 2000 **Proceedings of the symposium on Eye tracking research & applications**

Full text available: 📄 pdf(1.07 MB)   Additional Information: full citation, abstract, references, citings, index terms

One way to economize on bandwidth in single-user head-mounted displays is to put high-resolution information only where the user is currently looking. This paper summarizes results from a series of 6 studies investigating spatial, resolutional, and temporal parameters affecting perception and performance in such eye-contingent multi-resolutional displays. Based on the results of these studies, suggestions are made for the design of eye-contingent multi-resolutional displays.

**Keywords**: bandwidth, dual-resolution displays, eye movements, eyetracking, multiresolutional displays, peripheral vision, visual perception, wavelets

5  Real world applications: Genetic algorithm optimization of superresolution parameters ▬

Barry Ahrens

June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

Full text available: 📄 pdf(427.69 KB)   Additional Information: full citation, abstract, references, index terms

Superresolution is the process of producing a high resolution image from a collection of low resolution images. This process has potential application in a wide spectrum of fields in which navigation, surveillance, and observation are important, yet in which target images have limited resolution. There have been numerous methods proposed and developed to implement superresolution, each with its own advantages and limitations. However, there is no standard method or software for superresolution. ...

**Keywords**: genetic algorithms, point spread function, registration, superresolution

6  Posters: Towards an attentive robotic dialog partner ▬

Torsten Wilhelm, Hans-Joachim Böhme, Horst-Michael Gross

November 2003 **Proceedings of the 5th international conference on Multimodal interfaces**

Full text available: 📄 pdf(2.29 MB)   Additional Information: full citation, abstract, references, index terms

This paper describes a system developed for a mobile service robot which detects and

tracks the position of a user's face in 3D-space using a vision (skin color) and a sonar based component. To make the skin color detection robust under varying illumination conditions, it is supplied with an automatic white balance algorithm. The hypothesis of the user's position is used to orient the robot's head towards the current user allowing it to grab high resolution images of his face suitable for ...

**Keywords**: user detection, user tracking


**7**  Cost-effective parallel tiled display
Mohamed Ibrahim, Stephanie Smullen
December 2005 **Journal of Computing Sciences in Colleges**, Volume 21 Issue 2

Full text available: pdf(207.23 KB)    Additional Information: full citation, abstract, references

This paper describes the CECA VisLab Tiled Display---a reconfigurable, multi-screen, multi-computer, distributed image display system with zoom and pan functions. The project software utilizes distributed computing algorithms to control a parallel system to render high resolution images and scientific data on multiple displays. The system extends open source software to provide a large tiled image display using commodity hardware. The current version runs on Microsoft Windows but it can be easil ...


**8**  Hybrid stereo camera: an IBR approach for synthesis of very high resolution stereoscopic image sequences
Harpreet S. Sawhney, Yanlin Guo, Keith Hanna, Rakesh Kumar, Sean Adkins, Samuel Zhou
August 2001 **Proceedings of the 28th annual conference on Computer graphics and interactive techniques**

Full text available: pdf(1.64 MB)    Additional Information: full citation, abstract, references, citings, index terms

This paper introduces a novel application of IBR technology for efficient rendering of high quality CG and live action stereoscopic sequences. Traditionally, IBR has been applied to render novel views using image and depth based representations of the plenoptic functions. In this work, we present a restricted form of IBR in which lower resolution images for the views to be generated at a very high resolution are assumed to be available. Specifically, the paper addresses the problem of synthes ...

**Keywords**: image analysis, image-based rendering, stereo sequence synthesis


**9**  Salient stills
Laura Teodosio, Walter Bender
February 2005 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 1 Issue 1

Full text available: pdf(31.14 MB)    Additional Information: full citation, abstract, references, index terms

Salient Stills are a class of images that reflect the aggregation of the temporal changes that occur in a moving-image sequence with the salient features of individual frames preserved. They convey the intended expression of an entire series of moving frames---a visual summary of camera and object movements. The original frames, which may include variations in focal length or field of view, or moving objects, are combined to create a single still image. The still image may have multiresolution p ...

**Keywords**: Salient stills, media transcoding, semantic image processing, shape-time photography, synopsis mosaic, timeprints, video database, video mosaic, video summary


**10**

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